Performance Data Sheet

AVA5532EXN

General Information

Model	AVA5532EXN	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	9720	8680					
	Watts	1210	1240					
	Amps	7.07	6.73					
	Lb/h	125	116					
-10	Btu/h	10900	9770	8550				
	Watts	1330	1390	1400				
	Amps	7.54	7.37	7.10				
	Lb/h	139	130	118				
-5	Btu/h	12400	11200	9920	8510			
	Watts	1450	1520	1560	1550			
	Amps	7.94	7.95	7.85	7.66			
	Lb/h	157	148	136	122			
0	Btu/h	14300	13000	11600	10100	8530		
	Watts	1550	1650	1700	1720	1690		
	Amps	8.29	8.48	8.54	8.50	8.35		
	Lb/h	180	170	159	145	127		
5	Btu/h	16500	15100	13600	12000	10400		
	Watts	1640	1760	1830	1880	1880		
	Amps	8.58	8.95	9.18	9.28	9.28		
	Lb/h	207	197	185	171	154		
10	Btu/h	19100	17600	15900	14200	12500	10600	8550
	Watts	1710	1850	1960	2020	2050	2050	2000
	Amps	8.81	9.36	9.76	10.0	10.1	10.2	10.1
	Lb/h	239	228	215	201	184	163	140
15	Btu/h	22100	20400	18600	16700	14800	12800	10700
	Watts	1780	1940	2060	2160	2210	2240	2220
	Amps	8.99	9.72	10.3	10.7	11.0	11.1	11.1
	Lb/h	274	262	249	234	217	197	173
20	Btu/h	25500	23500	21600	19500	17500	15300	13100
	Watts	1830	2010	2160	2280	2360	2410	2430
	Amps	9.11	10.0	10.8	11.3	11.7	12.0	12.1
	Lb/h	314	301	287	272	254	233	209

25	Btu/h	29200	27000	24900	22600	20400	18000	15700
	Watts	1870	2070	2250	2390	2500	2580	2630
	Amps	9.17	10.3	11.2	11.9	12.4	12.8	13.1
	Lb/h	358	344	329	312	294	273	249
30	Btu/h	33300	30900	28500	26000	23500	21000	18500
	Watts	1890	2120	2320	2490	2630	2740	2820
	Amps	9.17	10.5	11.5	12.4	13.1	13.6	13.9
	Lb/h	406	390	374	357	337	316	291
35	Btu/h	37800	35100	32400	29700	27000	24300	21500
	Watts	1900	2160	2380	2570	2740	2880	2990
	Amps	9.12	10.6	11.8	12.8	13.7	14.3	14.8
	Lb/h	458	441	423	404	384	361	336
40	Btu/h	42700	39600	36700	33700	30700	27700	24700
	Watts	1900	2180	2430	2650	2840	3010	3160
	Amps	9.00	10.7	12.1	13.2	14.2	15.0	15.6
	Lb/h	514	495	476	456	434	410	384
45	Btu/h	47900	44500	41200	38000	34700	31500	28200
	Watts	1890	2190	2460	2710	2940	3130	3310
	Amps	8.83	10.7	12.2	13.6	14.7	15.6	16.3
	Lb/h	574	553	532	510	487	462	435
50	Btu/h	53500	49800	46100	42500	39000	35400	31900
	Watts	1860	2180	2480	2760	3010	3240	3450
	Amps	8.60	10.6	12.4	13.9	15.1	16.2	17.0
	Lb/h	638	615	592	568	543	517	489
55	Btu/h	59400	55400	51400	47400	43500	39600	35800
	Watts	1820	2170	2490	2800	3080	3340	3580
	Amps	8.31	10.5	12.5	14.1	15.5	16.7	17.6
	Lb/h	705	680	655	629	603	575	545

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.268091E+04	-6.043736E+02	1.043450E+00	2.404788E+02
C2	7.105099E+02	-3.027268E+00	-3.272896E-01	6.932859E+00
C3	-1.014333E+02	4.210803E+01	1.684017E-01	-1.126442E+00
C4	1.145168E+01	-2.972286E-01	-1.287117E-03	1.175792E-01
C5	-4.945299E+00	1.425516E-01	6.055156E-03	-3.993091E-02
C6	1.273837E-01	-1.868814E-01	-1.127293E-03	1.092780E-02
C7	1.033949E-04	-6.290312E-05	-2.727803E-07	-5.921990E-05
C8	-5.036655E-02	5.656813E-04	1.814026E-06	-3.900050E-04
C9	1.535421E-02	1.662372E-03	-1.455063E-05	1.935939E-04
C10	-2.206307E-03	-3.623346E-05	1.930097E-06	-7.835904E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature